

158510

25403
S/122/60/000/004/007/014
A161/A130

AUTHORS: Rabinovich, A.L., Candidate of Technical Sciences; Bilik, Sh.M.,
Doctor of Technical Sciences

TITLE: Determining the compression strength limit of plexiglass tubes

PERIODICAL: Vestnik mashinostroyeniya, no. 4, 1960, 39 - 44

TEXT: Oriented high-strength plexiglass such as CBAM(SVAM), KACT(KAST) and AT-4 (AG-4) are suitable for structural tubes including such application as mine props, but the practical application of such tubes and tube structures is inhibited by lack of standard test methods. The authors suggest such a method basing on data obtained in joint work of Laboratoriya anizotropnykh struktur AN SSSR (Laboratory of Anisotropic Structures AS USSR) and VUGI. The article includes theoretical calculations and description of experimental test equipment having been used. Destruction of tubular specimens of SVAM was watched with several indicators and a high-speed photo-camera. The observations proved sudden brittle failure in specimen mid. The length radius relation of tubes is analyzed and the ranges are determined, where the Euler formula and the Hooke law are applicable, and the finally recommended dimensions for standard test specimens are

Card 1/2

LUK'YANCHIKOV, I.K.; BILIK, Sh.M.

Prospects for the utilization of plastics in railroad transport.
Plast.massy no.8:39-43 '60. (MIRA 13:10)
(Plastics) (Railroads)

BILIK, Sh.M., doktor tekhn.nauk; GOROSHKOV, Yu.I., kand.tekhn.nauk;
SHISHKOV, V.F., inzh.

Plastic wire clamps. Elek. i tepl. tiaga 4 no.11:12-14 N '60.
(MIRA 13:12)
(Electric railroads--Wires and wiring)

S/081/62/000/004/072/087
B138/B110

AUTHOR: Bilik, Sh. M.

TITLE: The wear of polymers in the absence of lubricants

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 4, 1962, 555-556,
abstract 4P7 (Sb. "Sukhoye treniye", Riga, AN LatvSSR,
1961, 185-198)

TEXT: Plastic materials were rubbed with abrasive, rough and smooth surfaces with the aim of investigating the kinetics and mechanism of dry friction in this sphere. The materials used were abrasive strip, wire netting and polished steel. Unlike the polished steel, with the abrasive strip and netting it was not possible to assess the effect of fillers on wear resistance of plastics. If the plastic is rubbed with considerable friction, combs form on the surface in the shape of waves perpendicular to the movement of the plastic specimen. If the cutting rather than the friction component predominates, bands will be formed on the surface parallel to the direction of movement of the specimen. The different forms of wear exhibited by some plastics under friction with abrasive, rough and smooth surfaces are classified and tabulated. [Abstracter's note: Complete translation.]

Card 1/1

BILIK, Sh.M., doktor tekhn.nauk

Wear of plastic materials in sliding friction. Vest. ~~TMII~~ MPS
20 no.1:42-46 '61. (MIRA 14:1)
(Plastics) (Friction)

BILIK, Sh.M., doktor tekhn.nauk

"Lifetime of motor vehicles" by R.V. Kugel'. Reviewed by Sh.M.
Bilik. Vest.mash. 41 no.11:87-88 N '61. (MIRA 14:11)
(Motor vehicles)
(Kugel', R.V.)

S/883/62/000/000/009/020
E194/E155

AUTHOR: Bilik, Sh.M.

TITLE: Wear test methods for plastics

SOURCE: Metody ispytaniya na iznashivaniye; trudy soveshchaniya,
sostoyavshegosya 7-10 dek. 1960. Ed. by
M.M. Khrushchov. Moscow, Izd-vo AN SSSR, 1962. 89-99

TEXT: In conducting laboratory tests to assess the anti-frictional properties of plastics that have to operate in conjunction with steel parts, selection of the material and surface finish of the surface against which the plastic rubs is most important. Wear tests were made with a range of plastics rubbing against: abrasives of various grain size and backing; metal mesh; and steel with various degrees of finish, from ground to polished. Tests were made on 47 varieties of plastics, metals and alloys at room temperature, in several kinds of friction machines, with cylindrical specimens of 5, 10 and 16 mm diameter. Wear was assessed by loss of weight. Extensive test data are quoted and the following conclusions are drawn. In laboratory wear and friction coefficient tests on plastics, the main type of surface

Card 1/2

BILIK, Sh.M.

Microroughness of friction surfaces of plastics. Trudy Sem.po
kach.poverkh. no.5:339-347 '61. (MIRA 15:10)
(Plastics—Testing)

L 11157-63

EWP(1)/EPF(c)/EWT(m)/EDS--AFFTC/ASD/APOC--Pc-4/Pr-4--RM/
BW/WW/DJ

ACCESSION NR: AT3002180

S/2917/62/000/242/0004/0030

81
73

AUTHOR: Bilik, Sh. M. (Dr. of technical sciences)

TITLE: Evaluation of plastics as antifriction materials for railroad-transportation uses

SOURCE: Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhного
transporta. Trudy, no. 242, 1962. Primeneniye plastmass na zheleznodorozhnom
transporte, 4-30TOPIC TAGS: antifriction materials, AG-4 fiber-glass reinforced plastic, ED-5
epoxy resin, AL-9 aluminum, AK-7 polyamide, physics of abrasionABSTRACT: Extensive experimental investigations of abrasion of many plastics
against mating surfaces of various roughness are reported. No lubrication was
used. Polyethylene, vinyl, teflon, polystyrene, polyamides, textolites, fiber-
glass reinforced plastics, epoxy resins etc. were tested against abrasive, screen,
smooth, and high-polish surfaces. Abrasive cloth, steel and brass screens, shaft
steel, and highly polished steel were used. Forty-seven varieties of plastics,
metals and alloys were tested. Tests were carried out on the Grasseli, Schopper,
and MI (Amsler) friction machines, at room temperature, with a relative slip speed

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ACCESSION NR: AT3002180

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within 18-70 m per min. Cylindrical specimens of 5, 10, and 16 mm diameter were used. Specimen wear was evaluated with up to 0.1 mg or 0.1 micron accuracy. Effects of specific load and friction path on the wear of various materials were determined; also friction force vs. specific pressure curves were plotted. Five mechanisms of abrasion were found as a result of the above experiments: elastic, undulatory, plastic, abrasive, and combined. The undulatory mechanism which exhibited some peculiarities hitherto unknown, was found to be characteristic for the following materials: rubbers, polyamides, high-pressure polyethylene, polyvinyl chloride, ED-5 epoxy resin, and AG-4 fiber-glass reinforced plastic abraded against a screen; also ED-5 epoxy, linoleum, and AL-9 aluminum against the abrasive cloth. The elastic abrasion mechanism, which ensures the longest life and minimum gap variation to friction members, is recommended for valves, pistons, and slide-valves of rr automatic brake systems. The combined, elastic-undulatory mechanism is recommended for hinges of various locomotive levers. The abrasion tests were carried out "with the participation of B. S. Salenko and G. V. Gnezdilova." Profilograms of surfaces were taken on a VEI profilograph "jointly with Candidate of technical sciences V. E. Venshteyn, IMASH, AN SSSR." Orig. art. has: 15 figures, 10 formulas, and 11 tables.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo
Card 2/32

EWP(j)/EPF(c)/EWT(m)/BDS--AFFTC/ASD/APOC--Po-4/Pr-4--RM/BW/WW/DJ
L 11158-63

ACCESSION NR: AT3002181

S/2917/62/000/242/0031/0044

80
79

AUTHOR: Bilik, Sh. M. (Dr. of technical sciences); Salenko, B. S.

TITLE: Coefficients of friction for plastics

SOURCE: Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnoy transporta. Trudy, no. 242, 1962. Primeneniye plastmass na zheleznodorozhnom transporte, 31-44

TOPIC TAGS: friction of plastics, polyamide friction, caprone friction, capronite friction, polystyrene friction, polyethylene friction, textolite friction, wood-crumbs friction, veneer friction

ABSTRACT: For purposes of railroad transportation (friction joints, etc. in the rolling stock), an investigation was carried out of oilless friction between various plastics and mating surfaces. The plastics tested were: polyamide 68, same with talcua, polyamide 54, AK-7 polyamide, caprone, capronite, polystyrene, polyethylene, textolite, wood crumbs, veneer, decorrosite, antifrik, phenolite, FR-1 composition, SNP copolymer, ED-5 epoxy resin, same with quartz, brake composition, teflon. The mating surfaces were represented by: EB-100 abrasive cloth, EB-70 abrasive cloth, 230 emery paper, no. 30 brass screen, no. 12 steel screen, shaft

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ACCESSION NR: AT3002181

steel, and high-polish steel. In the article, force of friction and coefficient of friction as functions of specific load are presented. It is noted that the coefficients of friction of the same polymer material taken from different lots or received from different manufacturers vary widely. An attempt is made to calculate, if roughly, the coefficient of friction by means of a simple formula. Orig. art. has: 7 figures, 11 formulas, and 10 tables.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhного
transporta (All-Union Scientific Research Institute of Railroad Transport)

SURMITTED: 00 DATE ACQD: 10May63 ENCL: 00
SUB CODE: 00 NO REF Sov: 004 OTHER: 000

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Card 2/2

L 11159-63

EPR/EWP(j)/EPF(c)/EWT(m)/BDS--AFFTC/ASD--Ps-4/Pc-4/Pr-4--

RM/WJ

ACCESSION NR: AT3002182

S/2917/62/000/242/0112/0133

80
78

AUTHOR: Bilik, Sh. M. (Dr. of technical sciences); Goroshkov, Yu. I. (Candidate of technical sciences); Luk'yanchikov, I. K. (Engineer); Shishkov, V. F. (Engineer)

TITLE: Insulating plastic bars as a small-size sectionalizing insulator

SOURCE: Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta. Trudy, no. 242, 1962. Primeneniye plastmass na zheleznodorozhnom transporte, 112-133

TOPIC TAGS: plastic sectionalizing insulator, KAST plastic, ISS-27,5 porcelain sectionalizing insulator

ABSTRACT: Extensive experimental investigations are reported of plastic materials for and design of a sectionalizing insulating bar intended for overhead contact wires in electrical railroad systems. Mechanical tests permitted to choose a 16-plyglass-textolite bonded by EF-2 resin as the most suitable material for the bar. Its breaking load was 1.375 kg/sq cm. This material is manufactured (trademark KAST) by the Orekhovo-Zuyevo plant "Karbolid" according to the standard specifications TU285-54. Its electrical characteristics are reported in the article. The KAST bars were given 3 coats (ED-5 epoxy resin, E-4020 sealer based on ED-6 epoxy,

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and KMF-6 silicone finish) as a weather-and-arc proofing. The bars were tested for electrical strength, arc-resistance, and weather; all associated experiments, data, and selection criteria are reported in detail. Two parallel plastic bars were arranged to replace a heavy ISS-27,5 porcelain sectionalizing insulator in an actual electric rr contact-conductor line. Trains with different pantographs, at various speeds, were passed under the test insulator. In addition, its electric strength was tested after it was subjected to the combined actions of weather and locomotive steam and smoke. The pantograph-wire break lasted 0.18 sec at speeds 109-120 km/hr. A two-year trial operation of 173 plastic-bar sectionalizing insulators on East-Siberian and Moscow railroads revealed a number of defects, breakdowns, etc. which are analyzed, along with suggested remedies, in the article. Orig. art. has: 13 figures and 6 tables.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhного
transporta (All-Union Scientific Research Institute of Railroad Transport)

SUBMITTED: 00 DATE ACQD: 10 May 63 ENCL: 00
SUB CODE: 00 NO REF Sov: 000 OTHER: 000

Cord 2/2

BILIK, Shaya Mendalevich, doktor tekhn. nauk; D'YACHENKO, P.Ye.,
doktor tekhn. nauk, prof., retsenzent; VAYNSHTEYN, V.E.,
kand. tekhn.nauk, red.; MERENSKAYA, I.Ya., red. izd-va;
SMIRNOVA, G.V., tekhn. red.; GORDEYEVA, L.P., tekhn. red.

[Macroscopic geometry of machine parts] Makrogeometriia detalei
mashin. Moskva, Mashgiz, 1962. 274 p. (MIRA 16:2)
(Machinery—Design and construction)
(Surfaces (Technology))

BILIK, Sh.M., doktor tekhn. nauk

Evaluating plastics as antifriction material in railroad
transportation. Trudy TSNII NPS no.242:4-30 '62.
(MIRA 16:6)

(Plastics)
(Railroads—Equipment and supplies)

BILIK, Sh.M., doktor tekhn. nauk; SALENKO, B.S.

Coefficients of friction of plastics. Trudy TSNII NPS no.242:
31-44 '62. (MIRA 16:6)
(Plastics) (Friction)

BILIK, Sh.M., doktor tekhn. nauk; SHIROKIKH, V.P., inzh.

Plastic friction pairs for railroad rolling stock. Trudy
TSNII NPS no.242:45-61 '62. (MIRA 16:6)

(Plastics)
(Railroads—Equipment and supplies)

BILIK, Sh.M., doktor tekhn. nauk; GNEZDILLOVA, G.V., inzh.;
SUGAK, P.A., kand. tekhn. nauk

Plastic bushings for the friction pairs of automatic braking
systems. Trudy TSNII NPS no.242:62-67 '62.

(MIRA 16:6)

(Plastics) (Railroads—Brakes)

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205310020-8

BILIK, Sh.M.

Formation of lateral periodic wrinkles on the surfaces of solids
subjected to friction. Tren. i izn. v mash. no.17:71-79 '62.
(MIRA 17:10)

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205310020-8"

ACCESSION NR: AT4028410

S/2917/63/000/267/0005/0021

AUTHOR: Bilik, Sh. M. (Doctor of Technical Sciences); Yasson, Yu. B. (Engineer)

TITLE: Friction surfaces of plastics in the case of great augmentation.

SOURCE: Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta. Trudy*, No. 267, 1963. Primeneniye polimerov v podvizhnom sostave zheleznykh dorog (using polymers in railroad rolling stock), 5-11

TOPIC TAGS: plastic, surface friction, polymers, antifriction material, heat conductivity, shock viscosity, polyamides, replica, electron microscope, teflon

ABSTRACT: A number of polymers used as antifriction materials show the tendency toward crystallization, although they have an amorphous as well as a crystalline structure inherent in them. This is found in caprolactam and other polyamides, polyethylene and complex polyethers. The characteristic structure of a polymer is mainly caused by the heating and cooling of the polymer mass during the formation process. The surfaces of plastics are investigated by the counter bodies of different roughness by means of microphotographs and electronic methods. Electron microscopic investigation was conducted by studying replicas taken from the surfaces of polymer samples before and after their abrasion by a polished disc, a ground disc,

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ACCESSION NR: AT4028410

"mikronka" abrasive cloth and KZ-180 abrasive paper. After the samples were subjected to friction, carbon films were applied to the surface by means of vacuum spraying. The films were separated from the polymer with the aid of gelatin. After washing the replica the images were tinted with chromium for increased contrast. The replicas were then photographed in the electron microscope EM-5 which has a resolving power of 20 Å and a magnification of up to 90,000 times. Based on the electron microscopic research, the authors reached the following conclusions: 1) a strict flexible abrasion mechanism does not exist in the case of steel-plastic couplings. Elastic surface contacts are always accompanied by a pliable component, primarily by plastics; 2) the abrasion mechanism called flexible above should be more properly called suito flexible; 3) the orientation of the submicro-smoothnesses that appeared in teflon, viniplast and polycarbonate coincides with the direction of the friction.

- Orig. art. has: 5 figures.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta (All Soviet Railroad Scientific Research Institute)

SUBMITTED: 00

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SUB CODE: MA

NO REF Sov: 009

OTHER: 004

Card 2/2

ACCESSION NR: AT4028411

S/2917/63/000/267/0012/0024

AUTHOR: Bilik, Sh. M. (Doctor of Technical Sciences); Yasson, Yu. B. (Engineer)

TITLE: Adhesion of some polyamide films to metals and alloys

SOURCE: Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta. Trudy*, No. 267, 1963. Primeneniye polimerov v podvizhnym sostave zheleznykh dorog (using polymers in railroad rolling stock), 12-24

TOPIC TAGS: adhesion, polyamide film, antifriction material, capron, lamination, duraluminum, steel, brass, bronze, epoxy resin

ABSTRACT: Polyamides are used as antifriction materials in a number of machines and instruments. The use of polyamides make it possible to economize on nonferrous metals and in a number of cases to increase the life span of friction couplings. Capron applied to a metal body of a bearing in the form of a thin layer covering has a number of advantages in comparison with thick walled, cast bushings. The adhesion properties of capron and polymer films to a metal lining was tested on a number of metals, including steel, brass, bronze, anodized and unanodized duraluminum. The authors show the difference in adhesive properties with the introduction of several additives. The results of the tests are presented in graphs and tables. The authors

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ACCESSION NR: AT4028413

S/2917/63/000/267/0046/0059

AUTHOR: Bilik, Sh. M. (Doctor of Technical Sciences); Luk'yanchikov, I. K. (Engineer); Oganesov, A. S. (Engineer); Shirokikh, V. P. (Engineer)

TITLE: Experimental use of antifriction polymer materials in locomotives

SOURCE: Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut zhelezodorozhного transporta. Trudy*, No. 267, 1963. Primeneniye polimerov v podvizhnom sostave zheleznykh dorog (using polymers in railroad rolling stock), 46-59

TOPIC TAGS: antifriction material, antifriction polymer, locomotive, plastics, metal polymer, wear, antifriction disc, floating collars

ABSTRACT: The authors have undertaken a study to determine means for meeting increased reliability and life span requirements of friction points in moving parts of trains, due to the rapid growth and increased speed of the railroad transport. The study concentrated on metal-polymer friction couplings. After laboratory and test stand experiments, a number of metal-polymer couplings were installed on locomotives for experimental use. Some of these materials were made completely of plastic others from metal components covered with an antifriction polymer layer. The authors list the results using the latter in various components, such as antifriction discs

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of electric locomotives, floating collars of the main axles of steam locomotives, the slip rod collars of steam locomotives, the slip cover plates of locomotives, valves of steam locomotives, etc. on various rail lines of the Soviet Union. As a result of their investigations, the authors hope that in the immediate future, plastics will be substituted for nonferrous metals to a significant degree in railroad rolling stock and will thereby increase the operation of friction points of the moving parts.
Orig. art. has: 11 figures and 5 tables.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhного
transporta (All Soviet Railroad Scientific Research Institute)

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Card 2/2

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205310020-8

BILIK, Sh.M., doktor tekhn. nauk; SALENKO, B.S.

Abrasive wear of polymeric materials. Trudy TSNII MPS no.267:
60-69 '63. (MIRA 16:11)

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CIA-RDP86-00513R000205310020-8

BILIK, Sh.M., doktor tekhn. nauk; GNEZDILOVA, G.V., inzh.

Methylol polyamide phenol resins as antifriction material.
Trudy TSNII MPS no.267;70-81 '63. (MIRA 16:11)

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205310020-8"

KOZYREV, S.P., kand. tekhn. nauk; BILIK, Sh.M., doktor tekhn.
nauk, retsenzant

[Hydroabrasive wear of metals due to cavitation] Gidro-
abraziivnyi iznos metallov pri kavitatsii. Moskva, Izd-vo
"Mashinostroenie," 1964. 137 p. (MIRA 17:4)

"APPROVED FOR RELEASE: 06/08/2000

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L 55052-65 EWG(j)/EWP(e)/EWP(m)/EWP(w)/EPF(d)/EPF(1)/EWG(r)/EWA(d)/EPW/EWP(j)/

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Card 1/2

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205310020-8"

BILIK, Sh.M., doktor tekhn.nauk

Some properties of polymeric antifriction materials. Trudy TSNII
MPS no.283:4-24 '64.

Ways to expand the limits of the use of metal-polymeric friction
(MIRA 18:4)
pairs. Ibid.:25-93

BILIK, Sh.M., doktor tekhn.nauk; D'YACHKOV, A.K., doktor tekhn.nauk;
MAKHOVENKO, A.I., inzh.; SHIROKIKH, V.P., inzh.

Antifriction materials for the end thrusts of diesel locomotives
based on the compositions of stannous bronze and fluoroplast.
Trudy TSNII MPS no.283:148-160 '64.

(MIRA 18:4)

OGANESOV, Armen'k Sogomonovich; BILIK, Sh. M., doktor tekhn. nauk
red.

[Plastics in the friction elements of locomotives] Plast-
massy v uzlakh treniia lokomotivov. Moskva, Transport,
1965. 85 p. (MIRA 19:1)

L 24448-66 EWT(m)/EMP(j)/T/EIC(m)-6 IJP(c) MM/DJ/GS/RM

ACC NR: AT6008949

(A)

SOURCE CODE: UR/0000/65/000/000/0093/0106

53
52

AUTHOR: Bilik, Sh. M.

ORG: none

B+1

TITLE: A test of the application of plastics at friction points of railroad rolling stock

SOURCE: Moscow. Institut mashinovedeniya. Plastmassy v podshipnikakh skol'zheniya; issledovaniya, optyt primeneniya (Plastics in friction bearings; research and experiment in application). Moscow, Izd-vo Nauka, 1965, 95-106

TOPIC TAGS: material testing, polymer, plastic, resin, friction coefficient, metal wear, lubricant, antifriction material

ABSTRACT: The use of plastic materials at points of friction on railroad rolling stock is described. A review of current uses of plastics for this purpose indicates some favorable and some unfavorable results. Tests were performed on more than 250 forms of plastics in abrasive situations both with and without lubrication. The tests were conducted at the All-Union Scientific Research Institute of Railroad Transport (Vsesoyuznyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta). The materials tested included polymers and polycondensation products with several types of additives. Ten measures for increasing the serviceability of plastics on rolling stock friction parts are suggested as a result of the tests. These are: 1) the use of

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2

L 24448-66

ACC NR. AT6008949

resins which, in contact with metal, provide a very low coefficient of friction; 2) the use of resins with fillers, plastifiers, stabilizers, and other additives which tend to lower the coefficient of friction and to increase the heat conduction and wearability; 3) the designation of the optimal thickness of the antifriction polymer layer; 4) the obtaining of a wearing mechanism which would meet the requirements of high wearability and durability of friction couplings; 5) the establishing of an optimal relationship in using resins of crystalline and amorphous structures; 6) designation of an optimal thermal preparation of a polymer material; 7) application of lubricants and other cooling agents permitting maximal reduction of friction moments and of the temperature of the rubbing part and also the intensification of lubrication of rubbing surfaces; 8) the use of additives in lubricants to promote better wearing of both polymer and metal surfaces; 9) modification of metal parts design to accommodate the favorable wearing properties of adjacent plastics; and 10) perfection of the technology of the preparation of friction pair parts. The results of tests measurements are presented in several plots of temperature, durability, friction coefficient, and wearability measurements. Orig. art. has: 5 tables and 4 figures.

SUB CODE: 11/ SUBM DATE: 31Jul65/ ORIG REF: 009/ OTH REF: 001

Card 2/2dla

(4) L 11151-66 EWT(m)/T DJ

ACC NR: AP6000337

SOURCE CODE: UR/0286/65/000/021/0036/0036

AUTHORS: Bilik, Sh. M.; Tsurkan, I. G.; Cherkasskaya, P. M.

ORG: none

TITLE: Oil for working in a friction couple of steel-polymer. Class 23, No. 176027
Announced by Central Scientific Research Institute of Railroad Transportation
(Tsentral'nyy nauchno-issledovatel'skiy institut zheleznodorozhnogo transporta)

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 21, 1965, 36

TOPIC TAGS: steel, polymer, friction

ABSTRACT: This Author Certificate introduces the application of mineral oil with
an admixture of phenyl- β -naphtylamine as an oil for breaking in a friction couple
of steel-polymer.

SUB CODE: 11/ SUBM DATE: 07Dec63

BC
Card 1/1

UDC: 621.894

L 25672-66 EMT(m)/EWP(w)/EWP(l)/T/EWP(t) M/DJ/RM
ACC NR: AM6015329 Monograph

50 UR/

49
B+1

Bilik, Shaya Mendelevich

Metal-plastic friction pairs in machines and mechanisms (Pary treniya metall-plastmassa v mashinakh i mekhanizmakh) Moscow, Izd-vo "Mashinostroyeniye," 1966. 310 p. illus., biblio. Errata slip inserted. 3650 copies printed.

TOPIC TAGS: plastic material, antifriction material, polymer, metal plastic pair, friction, wear resistance, polymer fabrication

PURPOSE AND COVERAGE: This book is intended for mechanical engineers engaged in developing and improving antifriction plastic materials. The book may also be useful to teachers, aspirants and senior students of schools of higher technical education. The characteristics and properties of plastics used as antifriction material, the operating metal-plastic pairs under friction, and the micro-topography of paired parts are reviewed. The construction and technology of manufacturing the indicated pairs as well as their applications are discussed.

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UDC: 621.891 : 678,7 + 546.3.004.6

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ACC NR: AM6015329

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- Ch. II. Antifriction compositions with polymer base -- 30
Ch. III. Formation of contact of metal-polymer pairs in friction -- 65
Ch. IV. Effect of microtopography of joined parts on the performance of metal-polymer pairs operating under friction -- 91
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SUB CODE: 11/ SUBM DATE: 15Nov65/ ORIG REF: 093/ OTH REF: 012

Card 2/2 dda

SILIK, T.

PTA

9

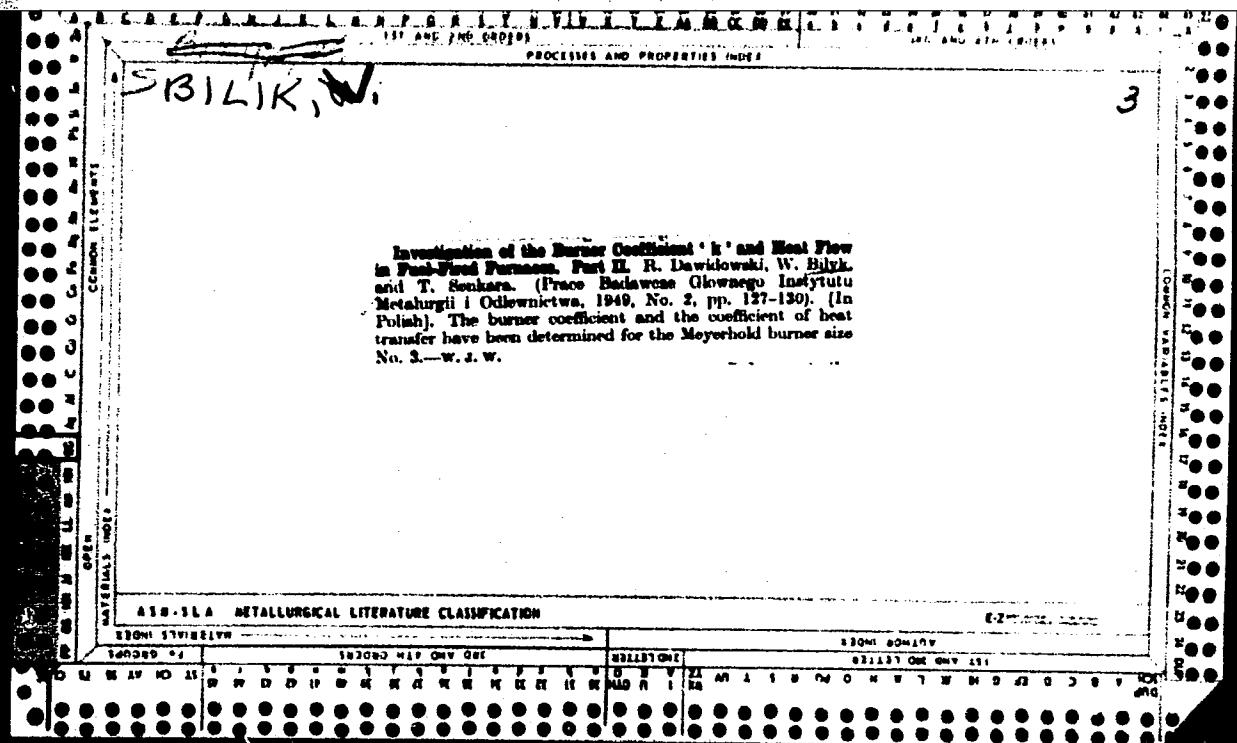
1207

725.511 : 725.196

Bilyk T. Laundry Planning in Hospitals.

"Planowanie pralni w budynkach szpitalnych". Architektura. No. 2. 1951, pp. 47-55, 13 figs.

Proper location of laundries in hospitals. Division of laundries into two parts: clean and soiled linen department. Description of successive stages of washing hospital linen; description of premises and of the installations of hospital laundry equipment. Proper solution of the hospital laundry problem as a factor in minimizing the danger of spreading bacteria beyond the precincts of hospitals.



BILIK, Vojtech, prcm. chemik; BAUER, Stefan, dr. inz., C.Sc.; JEZC, Ivan, dr. inz., C.Sc.; FURDIK, Mikulas, prof. inz.

Separation of O-trimethyl derivatives of monosaccharides by gas-liquid chromatography. Chem zvesti 19 no.1:28-33 '65.

1. Chair of Organic Chemistry and Biochemistry of the Faculty of Natural Sciences of Komensky University, Bratislava, Smeralova
2. Editorial Board Member, "Chemicke zvesti" (for Furdik).

BILIKOVA, Anna; BILIK, Vojtech.

Determination of microgram quantities of copper in natural
waters by means of oxaldihydrazid. Vod hosp 13 no.11:
437-438 '63.

BILIK, Vojtech, promovany chemik; JEZO, Ivan, dr. inz., CSc.

Some trimethylsilyl derivatives of saccharides. Chem zvesti
17 no.12:861-864 '63.

1. Ceskoslovenska akademie ved, Chemicky ustav Slovenskej
akademie vied, Bratislava, Mlynske nivy 37.

L 1631-66

ACCESSION NR: AP5024266

CZ/0043/64/000/009/0688/0691

AUTHOR: Bilik, V. (Graduate chemist); Jezo, I. (Yezho, Y.) (Doctor, Engineer, Candidate of sciences) (Bratislava); Stankovic, L. (Stankovich, L.) (Graduate chemist) (Bratislava)

TITLE: Determination of silicon in O-(Trimethylsilyl)-derivatives of saccharides

SOURCE: Chemicke zvesti, no. 9, 1964, 688-691

TOPIC TAGS: silicon, analytic chemistry, hydrolysis, organic silicon compound, carbohydrate

Abstract [Authors' German summary, modified]: Described is a method of determining silicon in some derivatives of O-(trimethylsilyl)saccharides, O-(trimethylsilyl)polysaccharides, N-(trimethylsilyl)-amines, and trimethylsilyl esters of organic acids. The method is based on a hydrolytic decomposition of substances. Hydrolysis products (trimethylsilanol and hexamethylsiloxane) are brought by an oxygen flow to a combustion tube where they are quantitatively burned to silicon dioxide.

Card 1/2

L 1631-66

ACCESSION NR: AP5024266

"We thank A. Sedlak ⁴⁴ for the determination of some physico-chemical constants of studied compounds." Orig. art.has: 1 figure, 1 table.

ASSOCIATION: Chemicky ustav Slovenskej akademie vied, Oddelenie chemie mono-sacharidov, Bratislava (Department of the Monosaccharides Chemistry, Slovak Academy of Sciences)

SUBMITTED: 28Sep63

ENCL: 00

SUB CODE: OC, GC

NR REF Sov: 001

OTHER: 006

JPRS

Kc
Card 2/2

L 7711-DR EVA(C)/EVA(L)/EVA(H)-2 RM
ACC NIE AP6000910

SOURCE CODE: CZ/0043/65/000/001/0028/0033

AUTHOR: Bilik, Vojtech (Graduate chemist); Bauer, Stefan—Bauer, Sh. (Engineer; Candidate of sciences); Jezo, Ivan—Yezho, I. (Doctor; Engineer; Candidate of sciences); Furdik, Mikulas (Engineer; Professor) 44,55 44,55 44,55 57

ORG: Department of Biochemistry of Saccharides, Chemical Institute, Slovak Academy of Sciences, Bratislava (Chemicky ustav Slovenskej akademie vied, Oddelenie monosacharidov); Department of Organic Chemistry and Biochemistry, Faculty of Natural Sciences, Comenius University, Bratislava (Katedra organickej chemic a biochemie Prirodovedeckej fakulty Univerzity Komenskeho) 44,55

TITLE: Separation of O-trimethyl-silyl derivatives and O-methyl derivatives of mono-saccharides by gas-liquid chromatography 1 44,55

SOURCE: Chemicke zvesti, no. 1, 1965, 28-33

TOPIC TAGS: carbohydrate, biochemistry, gas chromatography, chemical separation, organosilicon compound

ABSTRACT: The authors describe separation of O-trimethyl silyl derivatives from O-methyl derivatives of monosaccharides by means of gas chromatography. The anchored phase used was a polyester of 1,4-butane diol succinate. They found that elution periods of methyl analogues of trimethyl silyl ethers were a function of the anchored phase and its carrier (silica). Eng. A. Kardosova and P. Suchansky collaborated in the work in the division of gas chromatography. Orig. art. has: 4 graphs, 1 table. JPRS Card 1/2

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205310020-8

ACC NR: AP6000910

SUB CODE: 06, 07 / SUBM DATE: 20Jul64 / OTH REF: 008

Card 2/2

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205310020-8"

BILIK, V.D.

BILYK, V.D.

Treatment of chorea minor with prolonged sleep. Zhur.nevr.i psikh.
(MLRA 7:5)
54 no.4:336-341 Ap '54.

1. Kafedra nervnykh bolezney Vinnitskogo meditsinskogo instituta.
(SLEEP, therapeutic use,
*chorea) (CHOREA, therapy,
*sleep ther.)

BILYK, V.D.

AL'PEROVICH, P.M., professor; BILYK, V.D.

Prolonged sleep for treating some diseases of the nervous system.
Vrach.delo no.8:785-789 Ag '57. (MIRA 10:8)

1. Kafedra nervnykh bolezney (zav. - prof. P.M.Al'perovich)
Vinnitskogo meditsinskogo instituta
(SLEEP--THERAPEUTIC USE) (NERVOUS SYSTEM--DISEASES)

USSR/Human and Animal Physiology (Normal and Pathological)
Nervous System. Human Electroencephalogram.

T

Abs Jour: Ref Zhur-Biol., No 17, 1958, 79988.

Author : Bilyk, V.D.

Inst :

Title : Changes of Electric Activity of the Cerebral Cortex
in Patients With Mild Chorea.

Orig Pub: Sb. nauchn. tr. Vinnitsk. ned. in-ta, 1957, 10, 76-88.

Abstract: Impairments of EEG in patients with mild chorea were expressed as a general decrease of activity and polymorphism of a-rhythm, and, in serious cases, as an absence of a-rhythm and a great quantity of slow waves; during hyperkinesis, peak fluctuations of great amplitude were observed. Reaction to light stimulation in 50% of the cases was not found; in

Card : 1/2

89

AL'PEROVICH, P.M., prof., PISHEL', Ya.V., kand.med.nauk, BILYK, V.D.
KULIK, D.Ya.

Some problems in local dispensary treatment for neurological patients
in a rural district. Vrach.delo no.3:269-272 Mr'58 (MIRA 11:5)

1. Kafedra nervnykh bolezney (zav. - prof. P.M. Al'perovich)
Vinnitskogo meditsinskogo instituta.
(NERVOUS SYSTEM--DISEASES)

BILIKIEWICZ, Adam

Oligophrenia of a moderate degree in an adult subject with
giant congenital hydrocephalus. *Neur. &c. polska* 9 no.4:
551-553 Jl-Ag '59.

1. Z Kliniki Chorob Psychicznych A.M. w Gdansku Kierownik:
prof. dr T. Bilikiewicz.

(MENTAL DEFICIENCY case report)
(HYDROCEPHALUS compl)

BILIKIEWICZ, Adam; UMIASTOWSKI, Jerzy

Preliminary personal clinical experiences with indoklon shocks.
Neurologia etc. polska 11 no.1:101-109 Ja-F '61.

l. Z Kliniki Chorób Psychicznych AM w Gdańskim Kierownik: prof.
dr T. Bilikiewicz.

(SHOCK THERAPY) (ETHER ETHYL rel cpds)

BILIKIEWICZ, Adam

Melleril therapy in psychiatry according to clinical experiences.
Neurologia etc. polska 11 no.1:131-140 Ja-F '61.

1. Z Kliniki Chorob Psychicznych AM w Gdansku Kierownik: prof.
dr T. Bilikiewicz.

(TRANQUILIZING AGENTS ther)

BILIKIEWICZ, Adam

Critical considerations on the so-called tranquilizers. Polski
tygod. lek. 16 no.7:252-254 13 F '61.

l. Z Kliniki Chereb Psychiatricznych A.M. w Gdansk; kierownik: prof.
dr med. T. Bilikiewicz.

(TRANQUILIZING AGENTS)

BILIKIEWICZ, Adam; GROMSKA, Jadwiga

Diagnostic value of mental disorders in tumors of the temporal region. Neurol. neurochir. Psychiat. pol. 13 no.3:397-404 '63.

1. Z Kliniki Chorob Psychicznych AM w Gdansku Kierownik:
prof. dr T. Bilikiewicz.

(BRAIN NEOPLASMS) (TEMPORAL LOBE)
(MENTAL DISORDERS) (DIAGNOSIS)

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205310020-8

BILIKIEWICZ, Tadeusz

Maciej z Miechowa Karpiga (1457-1523). Pol. tyg. lek. 18
no.40:1497-1498 [REDACTED] 163.

(BIOGRAPHIES) (HISTORY OF MEDICINE, 15th CENT.)

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205310020-8"

BILIKIEWICZ, Adam; SULESTROWSKI, Waldemar.

A case of polymorphous hypersexualism related to post-traumatic
brain atrophy. Neurol. neurochir. Psychiatr. pol. 13 no. 5:725-727
'63.

1. Z Kliniki Chorob Psychicznych AM w Gdansku. Kierownik:
prof. dr. T. Bilikiewicz.

*

BILIKIEWICZ, Adam; SULESTROWSKI, Waldemar

Large dose nialamide therapy of depressive states. Neurol.
neurochir. Psychiat. pol. 13 no.6:921-927 N-D'63

1. Z Kliniki Chorob Psychicznych AM w Gdansku; kierownik:
prof.dr. T.Bilikiewicz.

BILIKIEWICZ, Adam

Clinical observations on the development of schizophrenia in syndromes. Rospr. wydz. nauk med. 9 no.2:5-57 '64.

l. Z Kliniki Chorob Psychicznych Akademii Medycznej w Gdansku (Kierownik: prof. dr. med. Tadeusz Bilikiewicz. Ocenili: prof. dr. med. Lucjan Korzeniowski i prof. dr. med. Karol Spett).

BILINSKI, Adam; KRZYWINSKI, Janusz

Application of unilateral electric shocks in psychiatry.
(preliminary communication) Neurol., neurochir., psychiat.
Vol. 14 no.4 s.663-669 Jl.-Ag '64

1. Z Kliniki Chorob Psychicznych Akademii Medycznej w
Gdansku (Kierownik: prof. dr. med. T. Bielakiewicz).

BILIKIEWICZ, Adam, prof. dr. med.; GROMSKA, Jadwiga.

Mental symptoms and character disorders in epilepsy with the "temporal syndrome". Neurol., neurochir. psychiat. Pol. 14 no.6:879-882 N-D '64

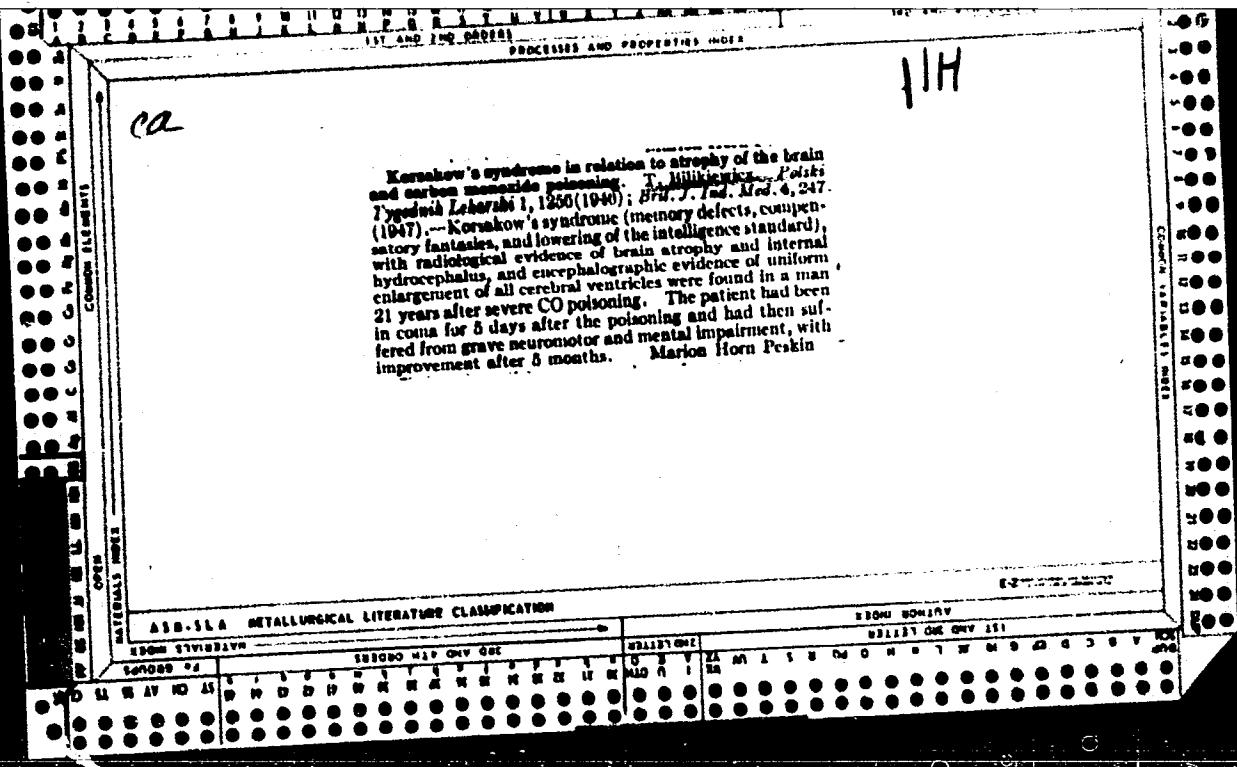
1. Z Kliniki Chorob Psychicznych Akademii Medycznej w Gdansku
(Kierownik: prof. dr. med. T. Bilikiewicza).

BILIKIEWICZ, Adam, prof. dr. med. i fil. ; SMOCZYNSKI, Stefan

Relation of psychomotor disorders to temporal epilepsy according
to our observations. Neurol., neurochir. psychiat. Pol. 14 no.6:
883-886 N-D '64

Mental disorders in temporal epilepsy without convulsive disorders.
Ibid.:887-890

I. Z Kliniki Chorob Psychicznych Akademii Medycznej w Gdansku
(Kierownik: prof. dr. med. i fil. T. Bilikiewicz).



"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205310020-8

BILIKIEWICZ, T.

An attempt to formulate a nosographic etioepigenetic system in
psychiatry. *Neurol. neurochir. Psychiat. polska* 1 no. 4:271-291
1951. (CLML 22:2)

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205310020-8"

BILIKIEWICZ, T.

Improved method of antabuse therapy of chronic alcoholism;
preliminary communication. Polski tygod. lek. 6 no.7:219-
223 12 Feb 1951. (CIML 20:11)

1. Of the Psychiatric Clinic (Director — Prof. T. Bilikiewics,
M.D. of Gdansk Medical Academy.

BILIKIEWICZ, T.

An attempt to formulate a nosographic, etiopathogenetic system in psychiatry.
Neurolog. neurochir. Psychiat. polska 1 no.1:68-78 contd. 1951. (CIML 21:4)

BILIKIEWICZ, T.

An attempt to formulate a nosographic etiopathogenetic system in psychiatry.
Neurol. neurochir. Psychiat. polska 1 no.2:135-149 contd. 1951.
(CML 21:4)

BILIKIEWICZ, T.

An attempt to formulate a nosographic, etioepigenetic system in psychiatry. *Neurol. neurochir. Psychiat. polska* 1 no.3:212-233; contd. 1951.
(CIML 21:5)

BILIKIEWICZ, Tadeusz (Gdansk, ul. Sniadeckich 9)

Types of complications in medicine. Polski tygod. lek. 9 no.37:

1197-1199 13 Sept 54.

(DISEASE, complications,
classif.)

EXCERPTA MEDICA Sec 8 Vol 9/8 Neurology Aug 56

3611. BILIKIEWICZ T. Sniadeckich 9, Gdańsk-Wrzeszcz. "Leczenie largaktylem w psychiatrii. Chlorpromazine in psychiatry WIAD. LEK. 1955, 8/2 (82-88) Tables 1

This first Polish publication on treatment of psychic disorders with phenothiazine derivatives (chlorpromazine, etc.) is based mostly on the world literature up to 1954. The report is a theoretical introduction to investigations and clinical experiences already initiated.

Bilikiewicz - Gdańsk

BILIKIEWICZ, Tadeusz

Discussion on the paper of prof. Dr. Andrzej Jus.
Etioepigenetic theory. *Neur. &c. polska* 6 no.1:93-109.
Jan-Feb 56.

(PSYCHIATRY,
etioepigenetic theory. (Pol))

BILIKIEWICZ, Tadeusz; SULESTROWSKI, Waldemar; WDOWIAK, Leonard

Results of treatment of paraphrenia and paranoia with largactil.
Neur. &c. polska 6 no.6:655-667 Nov-Dec 56.

1. Z Kliniki Chorob Psychicznych A.M. w Gdansku Kierownik: prof.
dr. T. Bilikiewicz.
(CHLORPROMAZINE, ther. use
paranoia & paraphrenia (Pol))
(PARANOIA, ther.
chlorpromazine in paranoia & paraphrenia (Pol))

BILIKIEWICZ, Tadeusz

Scientific activity of Eugeniusz Wilczkowski, Neur. &c. polska 7 no.5:
685-691 Sept-Oct 57.

(NEUROLOGY

contribution of Eugeniusz Wilczkowski)

(PSYCHIATRY

same)

(BIOGRAPHIES,

Wilczkowski, Eugeniusz, biobibliog. (Pol))

EXCERPTA MEDICA Sec 8 Vol 12/7 Neurology July 59

3478. EXPERIMENTS WITH HIBERNATION THERAPY OF OBSESSIVE COMPULSIVE NEUROSES - Bilikiewicz T., Galuszko P. and Kozlowski W. Clin. for Ment. Dis., Med. Acad., Gdańsk - POL. MED. HIST. SCI. BULL. 1958, 1/6-7 (8-11) Tables 1

Patients with obsessive compulsive neurosis were selected for this treatment after all other methods had failed. The temperature was permitted to descend to from 30.0°C. to 27.5°C. The time of hibernation varied from 102 to 128 hr. One patient died with a fulminating pneumonia soon after restoration of normal body temperature. Immediately after treatment the other 4 patients were free of symptoms. After a few days the symptoms began to return but always in a milder form which enabled them to return to work.

Gordon - Manchester (VIII, 18)

BILIKIEWICZ, Tadeusz, SCHWARZ, Jan

Some important methods of clinical psychology. Postepy neur. neurochir.
4:85-126 1958

1. Kliniki psychiatryczna A.M. w Gdańsku.
(PSYCHOLOGICAL TESTS,
review (Pol))

BILIKIEWICZ, Tadeusz; SULISTROWSKI, Waldemar; WDOWIAK, Leonard

Complexity of the psychotic structure from the standpoint of etio-epigenetic nosography. *Neur. &c. polska* 8 no.2:249-258 Mar-Apr '58.

1. Z Kliniki Chorob Psychicznych A.M. w Gdansku. Kierownik: prof.
dr T. Bilikiewicz. Adres: Gdańsk, Debinki 7, bud.25.
(*SCHIZOPHRENIA, etiol & pathogen.*
epigenesis theory (Pol))
(*PSYCHOSIS, etiol & pathogen*
same (Pol))

BILIKIEWICZ, T.

The medicine of Maciej z Miechowa. p. 13

WSZECHŚWIAT. (Polskie Towarzystwo Przyrodników im. Kopernika)
Warszawa. No. 1, Jan. 1959
Poland /

Monthly List of East European Accessions Index (EEAI), LC, Vol. 8, no. 6, June 1959
Uncl.

BILIKIEWICZ, Tadeusz; FALICKI, Zdzislaw

Therapy of vaginismus. Polski tygod. lek. 14 no.47:2076-2077 16 Nov.59.

l. (Z Kliniki Chorob Psychicznych A. M. w Gdansku; dyrektor; prof.
dr Tadeusz Bilikiewicz)
(VAGINA, dis.) (PSYCHOTHERAPY)

BILIKIEWICZ, Tadeusz

Mental disorders induced by aging processes (problems of psychogeriatrica). Polski tygod.lek. 14 no.50:2195-2201 D '59.

(MENTAL DISORDERS in old age)

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205310020-8

BILIKIEWICZ, Tadeusz

In memoriam. Adrian Demianowski (1887-1960). Neur.&c. polska 10 no.5:
675-679 '60.

(OBITUARIES)

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205310020-8"

BILIKIEWICZ, Tadeusz

Problems of psycho-geriatrics. Neur. &c. polska 10 no.5:703-708
'60.

1. Z Kliniki Chorob Psychicznych A.M. w Gdansku, Kierownik:
prof. dr T.Bilikiewicz.
(PSYCHIATRY)
(GERIATRICS)

BILIKIEWICZ, Tadeusz

Psychopathology of puberty. Neurol. neurochir. psychiat. pol.
13 no.3:391-395 '63.

1. Klinika Chorob Psychicznych AM w Gdansku Kierownik: prof.
dr med. i fil. T. Bilikiewicz.

(PUBERTY) (MENTAL DISORDERS)
(ADOLESCENCE) (ADOLESCENT PSYCHOLOGY)

BILIKIEWICZ, T.; GALUSKO, P.

Therapeutic value of atropine coma in the treatment of schizo-
phrenic and anancastic complexes. Cesk. psych. 60 no.6:361-366
N° 64.

1. Klinika psychickich chorob lekarske akademie v Gdansku.

BILIKIEWICZ, Tadeusz

The problem of tranquillizers in psychiatry. Postepy hig. med.
dosw. 18 no. 6 1953-964 N-D '64

1. Psychiatric Clinic, School of Medicine, Gdansk.

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205310020-8

BILIKIEWICZ, T.

Wladyslaw Szumowski; 1875-1954. Pol. tyg. lek. 20 no.9:322-323
1 Mr'65.

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205310020-8"

BILIKIEWICZ, Tadeusz; FALICKI, Zdzislaw

The problem of uniform terminology of symptoms in temporal lobe epilepsy. *Neurol. neurochir. Psychiat.* Pol. 15 no.3: 365-369 My-Je '65.

1. Z Kliniki Chorob Psychicznych w Gdansku (Kierownik: prof. dr. med. i fil. T. Bilikiewicz).

BILIKIEWICZ, Tadeusz; BILIKIEWICZ, Zofia

S. normal twilight states in old people. Neurol. neurochir.
psychiat. Pol. 15 no.2:217-220 Mr-Ap '65.

z. z Kliniki Chorob Psychicznych Akademii Medycznej w Gdansku
(Kierownik: prof. dr. T. Bilikiewicz).

BILIKIEWICZ, Tadeusz; FALICKI, Zdzislaw

The problem of specialist supervision in psychiatry. Neurol.
neurochir. psychiat. Pol. 15 no.2:355-359 Mr-Ap '65.

1. Z Kliniki Chorob Psychicznych AM w Gdansku (Kierownik: prof.
dr. T. Bilikiewicz).

CZECHOSLOVAKIA / POLAND

BILIKIEWICZ, T.; Psychiatric Department, University of Gdansk.
Original Version not given.

"Maintenance Therapy - A Medical and Social Problem."

Prague, Activitas Nervosa Superior, Vol 8, No 4, Nov 66, p 400

Abstract : Prevention of a relapse of mental patients is discussed. The importance of continuing drug therapy after discharge from hospitals is stressed. Some patients consider themselves to be cured, and stop taking the prescribed drugs; others are afraid of the side effects of the drugs, and in some cases the attending physicians do not realize the importance of maintaining a steady level of the drugs and fail to contact the psychiatrist who originally prescribed the treatment. There are also cases where the patient imagines that he knows enough about medicine to consider himself cured, or where there is a misunderstanding between the psychiatrist and the dispensing pharmacist. The importance of adequate instruction of physicians in the Public Health offices is discussed. No references. Submitted at the 8th Annual Psychopharmacological Meeting at Jesenik, 18 - 22 Jan 66. Article is in English.

1/1

BILIKOVA, Anna, promovany pedagog

Purity of the Poprad River water in the years 1961-1962.
Vod hosp 13 no.111:418-420 '63.

1. Vyskumny ustav vodohospodarsky, Bratislava.

BILIKOVA, Anna; BILIK, Vojtech.

Determination of microgram quantities of copper in natural
waters by means of oxaldihydracid. Vod hosp 13 no.11:
437-438 '63.

L 3043-66 EWP(t)/EWP(b) IJP(c) JD
ACCESSION NR: AP5026312

CZ/0008/65/059/001/0091/0094

AUTHOR: Bilikova, Anna; Zylka, Jaroslav

TITLE: Determination of microgram quantities of copper in water using tetraethylthiuramdisulphide (dicupral)

SOURCE: Chemicke listy, v. 59, no. 1, 1965, 91-94

TOPIC TAGS: copper, microchemical analysis, organic sulfur compound, spectrophotometric analysis

ABSTRACT: The method described is a spectrophotometric method. Cu ions form a yellow colored complex with the reagent; the complex remains stable for several days. Direct determination of Cu is possible in the presence of up to 2 mg/l of Ca, Mg, Al, Mn, Zn, Pb, Cd, Hg, Co, Ni, and up to 0.5 mg/l of Fe, and Cr. Details of the analytical method are given. "The authors thank A. Konradova for technical assistance." Orig. art. has 1 figure and 1 table.

ASSOCIATION: Vyzkumny ustav vodohospodarsky, Bratislava (Research Institute of Hydrology); Katedra analytickyj chemie Karlovej university, Prague (Department of Analytical Chemistry, Charles University)

SUBMITTED: 24Mar64

NO REF SOV: 000

Card 1/3 (1)

55 ENCL: 00

OTHER: 012

SUB CODE: IC, GC

JPRS

KALAB, Radomil, inz.; PARIZEK, Otto; BILIKOVA, Marie; FIALA, Bohuslav
Corrugated prefabricates from reinforced concrete. Poz stavby
11 no.4:191-195 '63.
1. ~~B~~medelsky stavebne technicky rozvoj, Brno.

KLEIBL, K., MD; BILIKOVA, V., MD.

CZECHOSLOVAKIA

1. Dermatology Ward of the Hospital (Z kozneho odd. nemocnice), Skalica (for Kleibl); 2. Infection Ward of the Hospital (Z infekc. oddelenia nemocnice), Skalica (for Bilikova)

Bratislava, Lekarsky obzor, No 7, 1963, pp 429-432

"Tularaemia as a Professional Disease."

"APPROVED FOR RELEASE: 06/08/2000

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JULY 1986

APPROVED FOR RELEASE: 06/08/2000

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"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205310020-8

Bilimovic, Abram. "On the geometrical theory of general relativity."

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205310020-8"

"APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205310020-8

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